

**Exhibit 300 (BY2010)**

PART ONE	
OVERVIEW	
1. Date of Submission:	2008-09-08
2. Agency:	026
3. Bureau:	00
4. Name of this Capital Asset:	GSFC Earth Observing Sys Data Info Sys
5. Unique Project Identifier:	026-00-01-04-01-1501-00
6. What kind of investment will this be in FY2010?	
Operations and Maintenance	
7. What was the first budget year this investment was submitted to OMB?	
FY2001 or earlier	
8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap.	
<p>The Earth Observing System Data and Information System (EOSDIS) is a highly specialized, distributed system of systems designed to support NASA's EOS research community. It also provides complementary, real-time science data for operational use by other agencies. EOSDIS processes, archives, and distributes Earth science data from NASA missions and provides real-time spacecraft control and feedback loop model processing for the EOS missions. Data are processed at near real-time rates or faster to support NASA's field campaigns that require processed scientific products in near real-time to coincide with the measurements of field-deployed assets; support for benchmarking near real-time applications with operational agencies such as NOAA (weather models), DoD (field conditions), and DoI (forest fire information); support for processing into higher level, discipline unique scientific products and archived for future use without building a processing backlog. Unique scientific products generated by EOSDIS need to be frequently reprocessed due to changes in instrument characteristics and improvements to scientific algorithms. This involves reprocessing the entire missions' data within short periods of time, requiring systems that must operate many times faster than near real-time rates. This system of systems is distributed throughout the US, providing discipline unique tools, search capabilities and sub-setting capabilities built around the specific science. These areas include: land processes, snow and ice, atmospheric composition, physical oceanography and geodesy. While COTS hardware and software are used in EOSDIS, the COTS software is limited to operating systems and database management systems. The majority of the software is custom code, utilizing unique algorithms to accommodate the different instrumentation and science disciplines. The unprecedented and unique nature of the scientific applications as well as the high-speed capabilities needed to manage the processes involved in automatically generating the scientific products ensures that they can be instantaneously searched and accessed in order to distribute them to a broad, multidisciplinary user community on a daily basis. EOSDIS is in its operational phase now supporting all EOS missions including the Aura mission launched in July 2004. At the end of FY07, EOSDIS archives held 4.9 petabytes of data, growing at ~3 terabytes per day and supporting distribution to users at 3 to 4 terabytes/day.</p>	
9. Did the Agency's Executive/Investment Committee approve this request?	
yes	
9.a. If "yes," what was the date of this approval?	
2008-06-19	
10. Did the Program/Project Manager review this Exhibit?	
yes	
11. Program/Project Manager Name:	
Mary Ann Esfandiari	
Program/Project Manager Phone:	
(301) 614-5048	
Program/Project Manager Email:	
mary.a.esfandiari@nasa.gov	
11.a. What is the current FAC-P/PM certification level of the project/program manager?	

Senior/Expert/DAWIA-Level 3	
11.b. When was the Program/Project Manager Assigned?	
2003-01-06	
11.c. What date did the Program/Project Manager receive the FACP/PM certification? If the certification has not been issued, what is the anticipated date for certification?	
2008-08-08	
12. Has the agency developed and/or promoted cost effective, energy-efficient and environmentally sustainable techniques or practices for this project.	
yes	
12.a. Will this investment include electronic assets (including computers)?	
yes	
12.b. Is this investment for new construction or major retrofit of a Federal building or facility? (answer applicable to non-IT assets only)	
no	
13. Does this investment directly support one of the PMA initiatives?	
yes	
If yes, select the initiatives that apply:	
<input type="checkbox"/> Budget Performance Integration <input type="checkbox"/> Competitive Sourcing <input type="checkbox"/> Expanded E-Government	
13.a. Briefly and specifically describe for each selected how this asset directly supports the identified initiative(s)? (e.g. If E-Gov is selected, is it an approved shared service provider or the managing partner?)	
EOSDIS supports Budget Performance Integration by defining and meeting specific performance goals in its planning and implementation. It supports Expanded E-Government through electronic distribution of EOS data to its hundreds of thousands of users, and maintains web sites designed to facilitate access to EOS data by citizens and organizations. It engages in Competitive Sourcing through competitive selection of data/service providers and fostering collaboration with universities and industry.	
14. Does this investment support a program assessed using the Program Assessment Rating Tool (PART)?	
yes	
14.a. If yes, does this investment address a weakness found during the PART review?	
no	
14.b. If yes, what is the name of the PARTed program?	
10004392 - NASA Earth-Sun System Research	
14.c. If yes, what rating did the PART receive?	
Moderately Effective	
15. Is this investment for information technology?	
yes	
16. What is the level of the IT Project (per CIO Council's PM Guidance)?	
Level 2	
17. What project management qualifications does the Project Manager have? (per CIO Council's PM Guidance)	
(1) Project manager has been validated as qualified for this investment	
18. Is this investment identified as high risk on the Q4 - FY 2008 agency high risk report (per OMB memorandum M-05-23)?	
no	
19. Is this a financial management system?	
no	
20. What is the percentage breakout for the total FY2010 funding request for the following? (This should total 100%)	
Hardware	9

<b>Software</b>	18																																			
<b>Services</b>	70																																			
<b>Other</b>	3																																			
21. If this project produces information dissemination products for the public, are these products published to the Internet in conformance with OMB Memorandum 05-04 and included in your agency inventory, schedules and priorities?																																				
yes																																				
22. Contact information of individual responsible for privacy related questions.																																				
Name																																				
Patti Stockman																																				
Phone Number																																				
202- 358-4787																																				
Title																																				
NASA Privacy Officer																																				
Email																																				
patti.stockman@nasa.gov																																				
23. Are the records produced by this investment appropriately scheduled with the National Archives and Records Administration's approval?																																				
yes																																				
24. Does this investment directly support one of the GAO High Risk Areas?																																				
no																																				
<b>SUMMARY OF SPEND</b>																																				
1. Provide the total estimated life-cycle cost for this investment by completing the following table. All amounts represent budget authority in millions, and are rounded to three decimal places. Federal personnel costs should be included only in the row designated Government FTE Cost, and should be excluded from the amounts shown for Planning, Full Acquisition, and Operation/Maintenance. The total estimated annual cost of the investment is the sum of costs for Planning, Full Acquisition, and Operation/Maintenance. For Federal buildings and facilities, life-cycle costs should include long term energy, environmental, decommissioning, and/or restoration costs. The costs associated with the entire life-cycle of the investment should be included in this report.																																				
All amounts represent Budget Authority																																				
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)																																				
<table border="1"> <thead> <tr> <th></th> <th><b>PY-1 &amp; Earlier</b></th> <th><b>PY</b></th> <th><b>CY</b></th> <th><b>BY</b></th> </tr> <tr> <th></th> <th><b>-2007</b></th> <th><b>2008</b></th> <th><b>2009</b></th> <th><b>2010</b></th> </tr> </thead> <tbody> <tr> <td><b>Planning Budgetary Resources</b></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td><b>Acquisition Budgetary Resources</b></td> <td>2437.859</td> <td>7.352</td> <td>0</td> <td>0</td> </tr> <tr> <td><b>Maintenance Budgetary Resources</b></td> <td>855.226</td> <td>109.546</td> <td>102.455</td> <td>99.278</td> </tr> <tr> <td><b>Government FTE Cost</b></td> <td>37.78</td> <td>6.272</td> <td>6.375</td> <td>7.332</td> </tr> <tr> <td><b># of FTEs</b></td> <td>268</td> <td>42</td> <td>38</td> <td>40</td> </tr> </tbody> </table>			<b>PY-1 &amp; Earlier</b>	<b>PY</b>	<b>CY</b>	<b>BY</b>		<b>-2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>Planning Budgetary Resources</b>	0	0	0	0	<b>Acquisition Budgetary Resources</b>	2437.859	7.352	0	0	<b>Maintenance Budgetary Resources</b>	855.226	109.546	102.455	99.278	<b>Government FTE Cost</b>	37.78	6.272	6.375	7.332	<b># of FTEs</b>	268	42	38	40
	<b>PY-1 &amp; Earlier</b>	<b>PY</b>	<b>CY</b>	<b>BY</b>																																
	<b>-2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>																																
<b>Planning Budgetary Resources</b>	0	0	0	0																																
<b>Acquisition Budgetary Resources</b>	2437.859	7.352	0	0																																
<b>Maintenance Budgetary Resources</b>	855.226	109.546	102.455	99.278																																
<b>Government FTE Cost</b>	37.78	6.272	6.375	7.332																																
<b># of FTEs</b>	268	42	38	40																																
Note: For the cross-agency investments, this table should include all funding (both managing partner and partner agencies).																																				
Government FTE Costs should not be included as part of the TOTAL represented.																																				
2. Will this project require the agency to hire additional FTE's?																																				
no																																				
3. If the summary of spending has changed from the FY2009 President's budget request, briefly explain those changes.																																				
No change																																				

## PERFORMANCE

*In order to successfully address this area of the exhibit 300, performance goals must be provided for the agency and be linked to the annual performance plan. The investment must discuss the agency's mission and strategic goals, and performance measures (indicators) must be provided. These goals need to map to the gap in the agency's strategic goals and objectives this investment is designed to fill. They are the internal and external performance benefits this investment is expected to deliver to the agency (e.g., improve efficiency by 60 percent, increase citizen participation by 300 percent a year to achieve an overall citizen participation rate of 75 percent by FY 2xxx, etc.). The goals must be clearly measurable investment outcomes, and if applicable, investment outputs. They do not include the completion date of the module, milestones, or investment, or general goals, such as, significant, better, improved that do not have a quantitative measure.*

*Agencies must use the following table to report performance goals and measures for the major investment and use the Federal Enterprise Architecture (FEA) Performance Reference Model (PRM). Map all Measurement Indicators to the corresponding Measurement Area and Measurement Grouping identified in the PRM. There should be at least one Measurement Indicator for each of the four different Measurement Areas (for each fiscal year). The PRM is available at [www.egov.gov](http://www.egov.gov). The table can be extended to include performance measures for years beyond the next President's Budget.*

	<b>Fiscal Year</b>	<b>Strategic Goal Supported</b>	<b>Measurement Area</b>	<b>Measurement Grouping</b>	<b>Measurement Indicator</b>	<b>Baseline</b>	<b>Planned Improvement to the Baseline</b>	<b>Actual Results</b>
<b>1</b>	2008	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Customer Results	Customer Satisfaction	Federal Government Average score for American Customer Satisfaction Index (ACSI)	Federal Government Average score for American Customer Satisfaction Index (ACSI) for FY2008	Exceed the Federal Government Average score for the Average Customer Satisfaction Index (ACSI) for FY2008	The EOSDIS ACSI measured in FY2007 was 75, which exceeded the Federal Government Averaged score of 71; the Survey for FY 08 will be conducted later in the year.
<b>2</b>	2008	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Mission and Business Results	Scientific and Technological Research and Innovation	Number of users that access EOSDIS.	Number of users that accessed EOSDIS in FY2007 was 647K	Maintain or increase the number of users that accessed EOSDIS in FY2007	The number of unique users accessing EOSDIS in FY2008 is ~750K (extrapolated from actuals through the end of June)
<b>3</b>	2008	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Mission and Business Results	Scientific and Technological Research and Innovation	Number of products distributed	The number of products distributed in FY2007 was 112M.	Maintain or increase the number of products distributed	125M products were distributed in FY2008 (extrapolated from actuals through end of June)
<b>4</b>	2008	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Processes and Activities	Timeliness	Average time to respond to users	Average time to respond to users in FY2007	Maintain or decrease the average time it takes to respond to users	Average time it takes to respond to users in FY2008 is one day when manual intervention is involved. However,

								usage of Data Pools for electronic access to data has increased, and in those cases the response to users occurs within a few minutes.
<b>5</b>	2008	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Technology	IT Composition	Percentage of commodity based versus enterprise class servers.	Replace high end expensive enterprise class servers with less expensive commodity based servers.	Over 50 % of EOSDIS servers are commodity-based.	Commodity-based servers represent approximately 75% of EOSDIS servers (estimate as of June 2008)
<b>6</b>	2008	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Technology	Operations and Maintenance Costs	Number of operations and sustaining engineering staff.	FY2007 staffing across sites	Reduce number by 10 FTE	Staffing was reduced by 10 FTE in FY2008 (estimate based on information thru end of June 2008)
<b>7</b>	2009	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Customer Results	Customer Satisfaction	Federal Government Average score for American Customer Satisfaction Index (ACSI)	Federal Government Average score for American Customer Satisfaction Index (ACSI) for FY2009	Exceed the Federal Government Average score for the Average Customer Satisfaction Index (ACSI) for FY2009	TBD
<b>8</b>	2009	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Mission and Business Results	Scientific and Technological Research and Innovation	Number of users that access EOSDIS	Number of users that accessed EOSDIS in FY2008.	Maintain or increase the number of users that accessed EOSDIS in FY2008.	TBD
<b>9</b>	2009	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Mission and Business Results	Scientific and Technological Research and Innovation	Number of products distributed	The number of products distributed in FY2008	Maintain or increase the number of products distributed	TBD
<b>10</b>	2009	Goal 3: Develop a balanced overall program of	Processes and Activities	Timeliness	Average time to respond to users	Average time to respond to users in FY2008	Maintain or decrease the average time it takes to respond to	TBD

		science, exploration and aeronautics.					users	
<b>11</b>	2009	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Technology	External Data Sharing	Number of EOSDIS data centers with geophysical spatial representation applications.	Data centers with limited geophysical spatial representation applications.	Most data centers have implemented geophysical spatial representation applications.	TBD
<b>12</b>	2009	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Technology	Operations and Maintenance Costs	Number of operations and sustaining engineering staff.	FY2008 staffing across sites.	Reduce number by 10 FTE.	TBD
<b>13</b>	2010	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Customer Results	Customer Satisfaction	Federal Government Average score for American Customer Satisfaction Index (ACSI)	Federal Government Average score for American Customer Satisfaction Index (ACSI) for FY2010	Exceed the Federal Government Average score for the Average Customer Satisfaction Index (ACSI) for FY2010	TBD
<b>14</b>	2010	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Mission and Business Results	Scientific and Technological Research and Innovation	Number of users that access EOSDIS	Number of users that accessed EOSDIS in FY2009.	Maintain or increase the number of users that accessed EOSDIS in FY2009.	TBD
<b>15</b>	2010	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Mission and Business Results	Scientific and Technological Research and Innovation	Number of products distributed	The number of products distributed in FY2009	Maintain or increase the number of products distributed	TBD
<b>16</b>	2010	Goal 3: Develop a balanced overall program of science, exploration and aeronautics.	Processes and Activities	Timeliness	Average time to respond to users	Average time to respond to users in FY2008	Maintain or decrease the average time it takes to respond to users	TBD
<b>17</b>	2010	Goal 3: Develop a balanced	Technology	External Data Sharing	Number of EOSDIS data centers with	Data centers with limited geophysical	All data centers have implemented	TBD

		overall program of science, exploration and aeronautics.			geophysical spatial representation applications.	spatial representation applications.	geophysical spatial representation applications.	
--	--	--	--	--	--	--------------------------------------	--	--

  

EA								
<p><i>In order to successfully address this area of the business case and capital asset plan you must ensure the investment is included in the agency's EA and Capital Planning and Investment Control (CPIC) process, and is mapped to and supports the FEA. You must also ensure the business case demonstrates the relationship between the investment and the business, performance, data, services, application, and technology layers of the agency's EA.</i></p>								
1. Is this investment included in your agency's target enterprise architecture?								
yes								
2. Is this investment included in the agency's EA Transition Strategy?								
yes								
2.a. If yes, provide the investment name as identified in the Transition Strategy provided in the agency's most recent annual EA Assessment.								
EOSDIS								
3. Is this investment identified in a completed (contains a target architecture) and approved segment architecture?								
yes								
3.a. If yes, provide the six digit code corresponding to the agency segment architecture. The segment architecture codes are maintained by the agency Chief Architect.								
326-000								
4. Identify the service components funded by this major IT investment (e.g., knowledge management, content management, customer relationship management, etc.). Provide this information in the format of the following table. For detailed guidance regarding components, please refer to <a href="http://www.whitehouse.gov/omb/egov/">http://www.whitehouse.gov/omb/egov/</a> .								
Component: Use existing SRM Components or identify as NEW. A NEW component is one not already identified as a service component in the FEA SRM.								
Reused Name and UPI: A reused component is one being funded by another investment, but being used by this investment. Rather than answer yes or no, identify the reused service component funded by the other investment and identify the other investment using the Unique Project Identifier (UPI) code from the OMB Ex 300 or Ex 53 submission.								
Internal or External Reuse?: Internal reuse is within an agency. For example, one agency within a department is reusing a service component provided by another agency within the same department. External reuse is one agency within a department reusing a service component provided by another agency in another department. A good example of this is an E-Gov initiative service being reused by multiple organizations across the federal government.								
Funding Percentage: Please provide the percentage of the BY requested funding amount used for each service component listed in the table. If external, provide the funding level transferred to another agency to pay for the service.								
	<b>Agency Component Name</b>	<b>Agency Component Description</b>	<b>Service Type</b>	<b>Component</b>	<b>Reused Component Name</b>	<b>Reused UPI</b>	<b>Internal or External Reuse?</b>	<b>Funding %</b>
1	Distributed Data Centers	EOSDIS distributed data centers facilitate the creation of science data products and provide the science data products to users.	Customer Relationship Management	Product Management			No Reuse	5
2	Distributed Data Centers	EOSDIS distributed data centers allow users to create a standing order for selected data products as they come available.	Customer Relationship Management	Customer / Account Management			No Reuse	2

<b>3</b>	ESDIS Project Office	EOSDIS sponsors an annual independent customer satisfaction survey to collect and analyze data product user information and gather user feedback	Customer Relationship Management	Customer Feedback			No Reuse	2
<b>4</b>	Distributed Data Centers	EOSDIS data centers post guidance and FAQs responses on their web sites.	Customer Initiated Assistance	Online Help			No Reuse	2
<b>5</b>	ECHO and Distributed Data Centers	EOSDIS users access the ECHO and data center web sites to search and order data products or access data services	Customer Initiated Assistance	Self-Service			No Reuse	6
<b>6</b>	Distributed Data Centers	EOSDIS data centers provide links on their web sites and for information (address, phone, email) to support solicitation of support from users	Customer Initiated Assistance	Assistance Request			No Reuse	2
<b>7</b>	ESDIS Project Office	The ESDIS Project office solicits and evaluates, then decides and guides the implementation of changes to the EOSDIS business processes and hardware/software components.	Management of Processes	Change Management			No Reuse	2
<b>8</b>	ESDIS Project Configuration Change Request System	The ESDIS CCR system supports control the EOSDIS hardware and software environments.	Management of Processes	Configuration Management			No Reuse	2
<b>9</b>	EOS Networks	EOSDIS ensures end-to-end network connectivity between users and geographically distributed EOSDIS data centers	Organizational Management	Network Management			No Reuse	2
<b>10</b>	ECHO/WIST	The EOS ClearingHouse (ECHO) supports efficient discovery and access to Earth Science data. It is a metadata clearinghouse and order broker.	Supply Chain Management	Catalog Management			No Reuse	2
<b>11</b>	Distributed Data Centers	EOSDIS data centers provide on-line services to allow the placement of a request for science data products.	Supply Chain Management	Ordering / Purchasing			No Reuse	2
<b>12</b>	Science Data Processing Segment	The Science Data Processing Segment provides access to data and information in the archive	Knowledge Management	Information Retrieval			No Reuse	4
<b>13</b>	Science Data Processing Segment	The Science Data Processing Segment stores data in the	Knowledge Management	Information Mapping / Taxonomy			No Reuse	2



		Hierarchical Data Format (HDF) as a standard way of organizing the science data to assists users in the transfer and manipulation of scientific data across diverse operating systems and computer platforms.						
14	Distributed Data Centers	EOSDIS distributed data centers share concepts and software, plus are interconnected to exchange data.	Knowledge Management	Information Sharing			No Reuse	5
15	Distributed Data Centers	EOSDIS data centers collect and store science data and the science algorithms for producing the data products.	Knowledge Management	Knowledge Capture			No Reuse	5
16	Distributed Data Centers	EOSDIS data centers provide online services to plot or graphical images to assist users to visualize, analyze, and access vast amounts of Earth science remote sensing data without having to download the data.	Visualization	Graphing / Charting			No Reuse	5
17	Distributed Data Centers	EOSDIS data centers provide online services to plot or graphical images to assist users to visualize, analyze, and access vast amounts of Earth science remote sensing data without having to download the data.	Visualization	Mapping / Geospatial / Elevation / GPS			No Reuse	5
18	Distributed Data Centers	EOSDIS Distributed Data Centers make available or provide science data to users and other data centers.	Data Management	Data Exchange			No Reuse	2
19	Science Data Processing Segment	The Science Data Processing Segment at the EOSDIS Distributed Data Centers archive and store large volumes of science data.	Data Management	Data Warehouse			No Reuse	4
20	Science Data Processing Segment	The Science Data Processing Segment at the EOSDIS Distributed Data Centers maintain and administer metadata for the science data products they store.	Data Management	Meta Data Management			No Reuse	2
21	Science Investigator-led Processing	The Science Investigator-led Processing Systems (SIPSS) produce most of	Data Management	Extraction and Transformation			No Reuse	10

	Systems (SIPs)	the EOS standard products from science data.						
22	ESDIS Project Office	The ESDIS Project Office oversees the redesigning of elements of the EOSDIS from disparate information systems into systems with a common set of data structures and rules.	Development and Integration	Enterprise Application Integration			No Reuse	4
23	ECHO	ECHO provides the middleware to support the organization of data from separate data sources into a single source for capturing information into the system	Development and Integration	Data Integration			No Reuse	2
24	Science Data Processing Segment	The Science Data Processing Segment at the EOSDIS data centers supports retrieval of science data and data products that satisfy specific query selection criteria.	Search	Query			No Reuse	4
25	Science Data Processing Segment	The Science Data Processing Segment at the EOSDIS data centers supports the selection and retrieval of science data products organized by shared characteristics (such as geospatial or physical parameters).	Search	Classification			No Reuse	2
26	Science Data Processing Segment	The Science Data Processing Segment at the EOSDIS data centers provides on-line services to support retrieval of science data products based on imputing characteristics from patterns in the in the data.	Search	Pattern Matching			No Reuse	2
27	Science Investigator-led Processing Systems (SIPs)	At the Science Investigator-led Processing Systems (SIPs), most processes for production and managing data products are automated	Tracking and Workflow	Process Tracking			No Reuse	4
28	Distributed Data Centers	The individual digital data products managed at the data centers are identified and stored to support collection and summarization.	Content Management	Tagging and Aggregation			No Reuse	2
29	Distributed Data Centers	The EOSDIS data centers maintain a data archive	Document Management	Library / Storage			No Reuse	5

		and the metadata describing those data.						
--	--	---	--	--	--	--	--	--

5. To demonstrate how this major IT investment aligns with the FEA Technical Reference Model (TRM), please list the Service Areas, Categories, Standards, and Service Specifications supporting this IT investment.

FEA SRM Component: Service Components identified in the previous question should be entered in this column. Please enter multiple rows for FEA SRM Components supported by multiple TRM Service Specifications.

Service Specification: In the Service Specification field, Agencies should provide information on the specified technical standard or vendor product mapped to the FEA TRM Service Standard, including model or version numbers, as appropriate.

	SRM Component	Service Area	Service Category	Service Standard	Service Specification (i.e., vendor and product name)
1	Online Help	Service Access and Delivery	Access Channels	Web Browser	Internet Explorer, Mozilla Firefox
2	Customer / Account Management	Service Access and Delivery	Access Channels	Collaboration / Communications	Microsoft Outlook and Entourage
3	Product Management	Service Access and Delivery	Access Channels	Other Electronic Channels	FTP Client/Server, ftp, scp, apache, veritas, TPSSM, StorNext, ACSLS, CVS, Portus, Permeo Application Security Platform, bbFTP
4	Product Management	Service Access and Delivery	Delivery Channels	Internet	Internet2 IP backbone, NISN, Anonymous ftp, Mozilla, Netscape, FRP Beans, Wu-FTP, SunOne, FTP Beans
5	Information Sharing	Service Access and Delivery	Service Requirements	Hosting	APACHE
6	Network Management	Service Access and Delivery	Service Transport	Supporting Network Services	POP, X.500, SMTP Mail program, LDAP, Legato Networker Client
7	Network Management	Service Access and Delivery	Service Transport	Service Transport	TCP/IP, Aspera, HTTPS, FTP
8	Data Exchange	Service Platform and Infrastructure	Support Platforms	Independent Platform	Java 2 Enterprise Edition (J2EE) , Linux, IRIX, AIX
9	Data Exchange	Service Platform and Infrastructure	Support Platforms	Dependent Platform	Windows XP, MAC OS X, SGIÂ Origin 2000, Dell 6350, EMC Clarion FC4700 , SUN Microsystems, Solaris
10	Product Management	Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache, Tomcat, BEA WebLogic
11	Data Exchange	Service Platform and Infrastructure	Delivery Servers	Application Servers	Hewlett-Packard UNIX servers /Hardware and HP-UX 11.0 operating system (Hardware), Sun Servers/ Hardware, Dell 6nnn, Jboss
12	Extraction and Transformation	Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	PERL, IDL, Eclipse
13	Configuration Management	Service Platform and Infrastructure	Software Engineering	Software Configuration Management	ClearCase, Â Remedy, Rational Clearcase and TestTrack Pro, Sybase ASE, TRAC, Subversion, Tripwire
14	Enterprise Application Integration	Service Platform and Infrastructure	Software Engineering	Test Management	JAVA Test Framework, Trac, Loadrunner, TestTrack_Pro_Client
15	Information Sharing	Service Platform and	Software Engineering	Modeling	Visual Paradigm, Rogue Wave Libraries, Sun Studio 10 Compilers. Linux Compilers. 1-Builder. Forcheck.

	Sharing	Platform and Infrastructure	Engineering		10 Compilers, Linux Compilers, J-Builder, Forcheck, Perl and Perl modules, Rational Rose, Java SDK & libraries, Sybase (Open Client) HDF Libraries, NetInsight
16	Knowledge Capture	Service Platform and Infrastructure	Database / Storage	Database	Oracle RDBMS, Sybase, MySQL, INFORMIX, Ingres, ACCESS, SQL Server
17	Data Warehouse	Service Platform and Infrastructure	Database / Storage	Storage	STORNEXT, StorageTek SDLT tape libraries, StorageTek 9710, Ampex DCRSi High Density Digital Tapes and Recorders, BoxHill, A1000, MTI, Andataco Raids/ Hardware, STK 9940B tape drives, AMASS, ADIC, Navisphere_Host_Agent, SANtricity_Storage_Manager
18	Extraction and Transformation	Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	RAID, Windows XP Sun (Solaris), Red Hat Linux for Dell, HP, DEC
19	Network Management	Service Platform and Infrastructure	Hardware / Infrastructure	Wide Area Network (WAN)	NISN, Internet2, SINET, APAN, Ionet
20	Network Management	Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)	Ebnet LAN, SEN, Ionet LAN
21	Network Management	Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Gigabit ethernet, Cisco, Portus, Permeo Application, Security Platform, Big_Brother_Client/server
22	Network Management	Component Framework	Security	Supporting Security Services	F-secure, ssh, scp,sftp
23	Graphing / Charting	Component Framework	User Presentation / Interface	Static Display	HTML
24	Mapping / Geospatial / Elevation / GPS	Component Framework	User Presentation / Interface	Dynamic Server-Side Display	Visual Paradigm, SQS, Web GUI™s, POSTGRES SQL, Sun Ray
25	Query	Component Framework	Business Logic	Independent Platform	Open Data Access Protocol (OpenDAP), C++, Java, SQL Programming languages
26	Query	Component Framework	Business Logic	Dependent Platform	Java SDK, JAF, JAXP, Java Web Services Developer Pack, JavaMail, JDOM FTP (Java Beans)
27	Catalog Management	Component Framework	Data Interchange	Data Exchange	XML, SOAP
28	Catalog Management	Component Framework	Data Management	Database Connectivity	Jconnect, JDBC API, RSI IDL
29	Data Integration	Service Interface and Integration	Integration	Middleware	PostgreSQL/ software, Storage Resource Broker (SRB),PostgreSQL/MySQL(Open Source Software)
30	Customer Feedback	Service Interface and Integration	Integration	Enterprise Application Integration	Rational Clearcase and TestTrack Pro, Sybase ASE, TRAC, Subversion, Primavera Project Planner, Purify
31	Information Mapping / Taxonomy	Service Interface and Integration	Interoperability	Data Format / Classification	Extensible Markup Language (XML), HDF libraries, RSI IDL
32	Information Mapping / Taxonomy	Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema, OPeNDAP servers

<b>33</b>	Information Retrieval	Service Interface and Integration	Interoperability	Data Transformation	XSLT, Å Hierarchical Data Format (HDF)
<b>34</b>	Self-Service	Service Interface and Integration	Interface	Service Discovery	Systinet: WASP UDDI
<b>35</b>	Self-Service	Service Interface and Integration	Interface	Service Description / Interface	Systinet: WASP UDDI
<b>36</b>	Ordering / Purchasing	Service Access and Delivery	Access Channels	Web Browser	Internet Explorer, Mozilla Firefox
<b>37</b>	Online Help	Service Access and Delivery	Access Channels	Collaboration / Communications	Microsoft Outlook and Entourage
<b>38</b>	Assistance Request	Service Access and Delivery	Access Channels	Collaboration / Communications	Microsoft Outlook and Entourage
<b>39</b>	Ordering / Purchasing	Service Access and Delivery	Access Channels	Collaboration / Communications	Microsoft Outlook and Entourage
<b>40</b>	Self-Service	Service Access and Delivery	Access Channels	Other Electronic Channels	FTP Client/Server, ftp, scp, apache, veritas, TPSSM, StorNext, ACSLS, CVS, Portus, Permeo Application Security Platform, bbFTP
<b>41</b>	Assistance Request	Service Access and Delivery	Access Channels	Other Electronic Channels	FTP Client/Server, ftp, scp, apache, veritas, TPSSM, StorNext, ACSLS, CVS, Portus, Permeo Application Security Platform, bbFTP
<b>42</b>	Extraction and Transformation	Service Platform and Infrastructure	Support Platforms	Independent Platform	Java 2 Enterprise Edition (J2EE) , Linux, IRIX, AIX
<b>43</b>	Extraction and Transformation	Service Platform and Infrastructure	Support Platforms	Dependent Platform	Windows XP, MAC OS X, SGIÅ Origin 2000, Dell 6350,EMC Clarion FC4700 , SUN Microsystems, Solaris
<b>44</b>	Data Warehouse	Service Platform and Infrastructure	Database / Storage	Database	Oracle RDBMS, Sybase, MySQL, INFORMIX, Ingres, ACCESS, SQL Server
<b>45</b>	Classification	Component Framework	Business Logic	Independent Platform	Open Data Access Protocol (OpenDAP), C++, Java, SQL Programming languages
<b>46</b>	Pattern Matching	Component Framework	Business Logic	Independent Platform	Open Data Access Protocol (OpenDAP), C++, Java, SQL Programming languages
<b>47</b>	Classification	Component Framework	Business Logic	Dependent Platform	Java SDK, JAF, JAXP, Java Web Services Developer Pack, JavaMail, JDOM FTP (Java Beans)
<b>48</b>	Pattern Matching	Component Framework	Business Logic	Dependent Platform	Java SDK, JAF, JAXP, Java Web Services Developer Pack, JavaMail, JDOM FTP (Java Beans)
<b>49</b>	Data Exchange	Component Framework	Data Interchange	Data Exchange	XML, SOAP
<b>50</b>	Query	Service Interface and Integration	Integration	Middleware	PostgreSQL/ software, Storage Resource Broker (SRB),PostgreSQL/MySQL(Open Source Software)
<b>51</b>	Change Management	Service Interface and Integration	Integration	Enterprise Application Integration	Rational Clearcase and TestTrack Pro, Sybase ASE, TRAC, Subversion, Primavera Project Planner, Purify
<b>52</b>	Enterprise Application Integration	Service Interface and Integration	Integration	Enterprise Application Integration	Rational Clearcase and TestTrack Pro, Sybase ASE, TRAC, Subversion, Primavera Project Planner, Purify

<b>53</b>	Process Tracking	Service Interface and Integration	Integration	Enterprise Application Integration	Rational Clearcase and TestTrack Pro, Sybase ASE, TRAC, Subversion, Primavera Project Planner, Purify
<b>54</b>	Information Sharing	Service Interface and Integration	Interoperability	Data Format / Classification	Extensible Markup Language (XML), HDF libraries, RSI IDL
<b>55</b>	Meta Data Management	Service Interface and Integration	Interoperability	Data Format / Classification	Extensible Markup Language (XML), HDF libraries, RSI IDL
<b>56</b>	Library / Storage	Service Interface and Integration	Interoperability	Data Format / Classification	Extensible Markup Language (XML), HDF libraries, RSI IDL
<b>57</b>	Meta Data Management	Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema, OPeNDAP servers
<b>58</b>	Tagging and Aggregation	Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema, OPeNDAP servers
<b>59</b>	Mapping / Geospatial / Elevation / GPS	Service Interface and Integration	Interoperability	Data Transformation	XSLT, Â Hierarchical Data Format (HDF), Shockwave Flash
<b>60</b>	Information Sharing	Service Access and Delivery	Service Requirements	Hosting	APACHE

6. Will the application leverage existing components and/or applications across the Government (i.e., FirstGov, Pay.Gov, etc)?

yes

6.a. If yes, please describe.

Yes. For performing its infrastructure business functions, the ESDIS Project will utilize as appropriate the services provided by existing and other Federal E-Government initiatives.

### PART THREE

#### RISK

*You should perform a risk assessment during the early planning and initial concept phase of the investmentâ€™s life-cycle, develop a risk-adjusted life-cycle cost estimate and a plan to eliminate, mitigate or manage risk, and be actively managing risk throughout the investmentâ€™s life-cycle.*

*Answer the following questions to describe how you are managing investment risks.*

1. Does the investment have a Risk Management Plan?

yes

1.a. If yes, what is the date of the plan?

2008-07-02

1.b. Has the Risk Management Plan been significantly changed since last year's submission to OMB?

no

#### COST & SCHEDULE

1. Was operational analysis conducted?

yes

1.a. If yes, provide the date the analysis was completed.

2008-07-08

*What were the results of your operational analysis?*

EOSDIS should continue to provide regular operations, while completing the planned Evolution activities.